

Application/Control Number: 09/996,081
An Unit: 2655

Docket No.: 2000-0573

AMENDMENT

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A method of rescoring the results of automatic speech recognition, comprising:

generating a plurality of lattices for received speech utterances associated with filling in a plurality of data fields for a speech utterance;

concatenating the plurality of lattices into a single concatenated lattice; and

applying at least one language model to the single concatenated lattice in order to determine relationships between the plurality of lattices.

2. (currently amended) The method of rescoring the results of automatic speech recognition according to claim 1, further comprising generating a confidence score after applying the at least one speech recognition model to determine ~~determined~~ whether the generated plurality of lattices are acceptable.

3. (original) The method of rescoring the results of automatic speech recognition according to claim 2, wherein the confidence score is compared to a predetermined value in order to determine whether to perform the automatic speech recognition process again.

4. (original) The method of rescoring the results of automatic speech recognition according to claim 3, wherein the automatic speech recognition process is performed again if the confidence score is less than the predetermined value.

5. (original) The method of rescoring the results of automatic speech recognition according to claim 1, wherein the rescoring is performed after a speech recognition model has been compensated to reflect acoustic environmental data and transducer data.

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6. (original) The method of rescoring the results of automatic speech recognition according to claim 1, wherein the rescoring the automatic speech recognition is used in a mobile communications system.

7. (original) The method of rescoring the results of automatic speech recognition according to claim 1, wherein the rescoring the automatic speech recognition is used in a satellite communications system.

8. (currently amended) A rescoring process used in the automatic speech recognition system, comprising:

a speech recognizer that generates a plurality of lattices, each lattice corresponding to a received speech utterance associated with filling in one of a plurality of data fields, by using at least one speech recognition model; and

a controller that concatenates the plurality of lattices into a single concatenated lattice, and applies the at least one language model to the single concatenated lattice.

9. (original) The rescoring process used in the automatic speech recognition system according to claim 8, wherein the speech utterances are received from a mobile device.

10. (original) The rescoring process used in an automatic speech recognition system according to claim 8, wherein the speech utterances are received from a personal digital assistant.

11. (original) The rescoring process used in an automatic speech recognition system according to claim 8, wherein the rescoring process used in the automatic speech recognition is used in a satellite communications system.

12. (original) The rescoring process used in an automatic speech recognition system according to claim 8, wherein the speech recognition model is a hidden Markov model.

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13. (original) The rescoring process used in an automatic speech recognition system according to claim 8, wherein the controller is a network server.

14. (currently amended) A controller used for rescoring results of an automatic speech recognition system, comprising:

a first section that generates a plurality of lattices of speech utterances, each lattice associated with a received speech utterance for filling in one of a plurality of data fields;

a second section that concatenates the plurality of lattices of the speech utterances into a single concatenated lattice; and

a third section that applies at least one language model to the single concatenated lattice.

15. (original) The controller used for the rescoring results of the automatic speech recognition system according to claim 14, the controller further comprising a fourth section that determines whether an automatic speech recognition process should be performed again.

16. (original) The controller used for the rescoring results of the automatic speech recognition system according to claim 14, wherein the controller is a network server used in a mobile communications system.